

Title (en)

DEVICE FOR AUTOMATICALLY SAMPLING TRITIUM IN THE WATER VAPOUR IN AIR

Title (de)

VORRICHTUNG FÜR DIE AUTOMATISCHE ENTNAHME VON TRITIUM AUS WASSERDAMPF IN DER LUFT

Title (fr)

DISPOSITIF DE PRELEVEMENT AUTOMATIQUE DU TRITIUM DANS LA VAPEUR D'EAU DE L'AIR

Publication

**EP 2115420 B1 20161005 (FR)**

Application

**EP 07803829 A 20070703**

Priority

- FR 2007001121 W 20070703
- FR 0606065 A 20060704

Abstract (en)

[origin: WO2008003853A2] The invention relates to the measurement of the tritium concentration of the water vapour in air and more particularly the subject of the invention is a method of automatically sampling tritium in the water vapour of air using a cold trap, of the type comprising a first step of condensing the water vapour of the air by cooling over a cold trap and a second step of recovering the ice formed in the previous step in the form of condensation liquid, characterized in that the air is contained in a sampling chamber (1) and is brought into contact with a cold trap (2, 4) which has been brought to a temperature below 0°C and in that the liquid of the second step is obtained by warming the cold trap.

IPC 8 full level

**G01N 1/22** (2006.01); **G01N 1/10** (2006.01); **G01N 33/00** (2006.01)

CPC (source: EP US)

**G01N 1/22** (2013.01 - EP US); **G01N 33/0055** (2013.01 - EP US); **G01N 33/0093** (2024.05 - EP); **G01N 1/2273** (2013.01 - EP US); **G01N 33/0093** (2024.05 - US); **G01N 2001/1075** (2013.01 - EP US); **G01N 2001/2282** (2013.01 - EP US)

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC MT NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

**WO 2008003853 A2 20080110**; **WO 2008003853 A3 20080306**; **WO 2008003853 B1 20080424**; CA 2656806 A1 20080110; CA 2656806 C 20151208; EP 2115420 A2 20091111; EP 2115420 B1 20161005; FR 2903490 A1 20080111; FR 2903490 B1 20090220; RU 2009103629 A 20100810; RU 2442129 C2 20120210; US 2009301228 A1 20091210; US 8201465 B2 20120619

DOCDB simple family (application)

**FR 2007001121 W 20070703**; CA 2656806 A 20070703; EP 07803829 A 20070703; FR 0606065 A 20060704; RU 2009103629 A 20070703; US 30725207 A 20070703